

## **5.0 MITIGATION MONITORING AND COMPLIANCE PROGRAM**

This mitigation monitoring and compliance program has been prepared for use in implementing certain of the conditions of approval for:

### **Mitsubishi Cement Corporation Cushenbury Mine Expansion**

The program has been prepared in compliance with State law and the Environmental Impact Report ("EIR") (SCH No. 2001101044) prepared for the project by San Bernardino County ("the County").

The California Environmental Quality Act requires adoption of a reporting or monitoring program for those measures placed on a project to mitigate or avoid adverse effects on the environment. (Public Resource Code Section 21081.6) The law states that the reporting or monitoring program shall be designed to ensure compliance during project implementation.

The monitoring program contains the following elements:

- 1) The mitigation measures are recorded with the action and procedure necessary to ensure compliance. In some instances, one action may be used to verify implementation of several mitigation measures.
- 2) A procedure for compliance and verification has been outlined for each action necessary. This procedure designates who will take action, what action will be taken and when, and to whom and when compliance will be reported.
- 3) The program contains a separate Mitigation Monitoring and Compliance Record for each action. On each of these record sheets, the pertinent actions and dates will be logged, and copies of permits, correspondence or other relevant data will be attached. Copies of the records will be submitted to the Advance Planning Division.
- 4) The program has been designed to be flexible. As monitoring progresses, changes to compliance procedures may be necessary based upon recommendations by those responsible for the program. As changes are made, new monitoring compliance procedures and records will be developed and incorporated into the program.

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**GEO-1.** Detailed mapping of cut slopes shall be conducted annually or for every 100 feet of vertical cut, whichever occurs first, by an independent California Certified Engineering Geologist, to confirm that the geologic conditions are consistent with those identified in the geotechnical investigation prepared for the proposed project and utilized for the stability analysis. Mapping shall focus on potential adversely oriented structural places of weakness, such as faults, shears, or joint sets or other discontinuities. Adverse out-of-slope discontinuities or weaknesses mapped shall require a reevaluation of the slope stability analysis. Should any final quarry slopes be found to be unstable (as determined by the County Geologist) the applicant shall complete such additional work as is recommended by the geologist or engineer to ensure the slope's long-term stability. The annual slope stability evaluation shall be submitted to the County Geologist for review and approval.

## **IMPLEMENTATION AND VERIFICATION**

- 1) Submit mapping to the County Geologist (Department of Building and Safety) annually.
- 2) Submit a copy of the County Geologist's approval and recommendations to the Planning Department within 30 days of receipt.

## **COMPLIANCE RECORD**

**When Required:** Mapping to be submitted annually, on or before March 31st.

	Submitted to County Geologist	Approved by County Geologist	Approval Submitted to Planning Department
Name: 2005 Date:			
Name: 2006 Date:			
Name: 2007 Date:			
Name: 2008 Date:			
Name: 2009 Date:			
Name: 2010 Date:			

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**GEO-2.** All final quarry benches shall be designed so that they do not exceed the bench heights and bench widths identified in the slope stability analysis in the EIR. Stockpile slopes shall be developed to meet the following standards: Fill slopes as steep as 1.5:1 (horizontal-to-vertical) shall not exceed a height of 100 feet while fill slopes as steep as 1.75:1 (horizontal-to-vertical) shall not exceed a height of 400 feet. Stockpile slopes steeper than 2:1 shall be revegetated for reclamation.

## **IMPLEMENTATION AND VERIFICATION**

The Planning Department shall verify compliance with approved plans during the annual SMARA inspection.

## **COMPLIANCE RECORD**

### **When Required:**

Mitigation is required on an ongoing basis during mining and reclamation, verified during site inspections.

**Inspected by:**

**Date Inspected:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**GEO-3.** A final report verifying the stability of all reclaimed slopes shall be submitted to the County Geologist for review and approval upon completion of the reclamation process. The report shall utilize County of San Bernardino's standards in the evaluation of slope stability.

## **IMPLEMENTATION AND VERIFICATION**

- 1) Submit final slope stability analysis to the County Geologist (Department of Building and Safety) for approval.
- 2) Submit copy of the County Geologist's approval to the Planning Department.

## **COMPLIANCE RECORD**

### **When Required:**

When cut and fill slopes reach their final configuration.

**Submitted to County Geologist:**

---

**Date Submitted:**

---

**Approved by County Geologist:**

---

**Date Approved:**

---

**Copy of Geologist Approval to:  
Planning Department:**

---

**Date Submitted:**

---



**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**GEO-4.** Surface disturbance shall be limited to those areas required for existing and proposed quarrying operations. Surface disturbance subject to potential erosion and sediment loss shall be limited through long-range planning, effective design practices, phased development of quarry expansion areas, the sequencing of soil removal, and reclamation of disturbed areas.

## **IMPLEMENTATION AND VERIFICATION**

The Planning Department shall verify compliance with approved plans during SMARA site inspections.

## **COMPLIANCE RECORD**

### **When Required:**

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during site inspections.

**Inspected by:**

**Date Inspected:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**This Page Intentionally Left Blank**

## MITIGATION MEASURE

**GEO-5.** Drainage structures shall be located and constructed to control flow velocities, provide for stability during their planned operating life, and minimize additional contributions of sediment to runoff flows.

## IMPLEMENTATION AND VERIFICATION

The Planning Department shall verify compliance with approved plans during SMARA site inspections.

## COMPLIANCE RECORD

### When Required:

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during site inspections.

**Inspected by:**

**Date Inspected:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**This Page Intentionally Left Blank**

## MITIGATION MEASURE

**GEO-6.** Site-specific drainage and sediment control measures shall be utilized on roads, stockpile areas, and other disturbed areas within quarry areas. These measures may include (but shall not be limited to): construction of temporary diversion and collection ditches, berms, check dams, and catchment basins; the placement of erosion control materials, sediment fences, or straw bales; or other appropriate measures. Drainage control measures shall be implemented, as needed, upon regular inspection of operating areas and/or upon observation of erosion or siltation downslope of any disturbed area.

## IMPLEMENTATION AND VERIFICATION

The Planning Department shall verify compliance with approved plans during SMARA site inspections.

## COMPLIANCE RECORD

### When Required:

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during site inspections.

**Inspected by:**

**Date Inspected:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**GEO-7.** Where determined necessary by the County or as based upon visible erosion, vegetation shall be temporarily established to stabilize cut and fill slopes. If they are designed for storage periods exceeding one year, growth media stockpiles shall be stabilized or covered through the establishment of vegetation or other suitable cover.

## **IMPLEMENTATION AND VERIFICATION**

The Planning Department shall verify compliance with approved plans during SMARA site inspections.

## **COMPLIANCE RECORD**

### **When Required:**

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during site inspections.

**Inspected by:**

**Date Inspected:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---



**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**GEO-8.** Long-term stabilization or reclamation shall involve the grading or reshaping of disturbed areas, establishing effective drainage, the placement of plant growth media, and revegetation per applicable provisions of the Reclamation Plan.

## **IMPLEMENTATION AND VERIFICATION**

The Planning Department shall verify compliance with approved plans during SMARA site inspections.

## **COMPLIANCE RECORD**

### **When Required:**

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during site inspections.

**Inspected by:**

**Date Inspected:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**GEO-9.** To prevent the entry of side waste into Marble Canyon, erosion and sedimentation control features shall be installed and maintained along the existing haul road adjacent to Marble Canyon.

## **IMPLEMENTATION AND VERIFICATION**

Submit design of erosion and sedimentation control features to the Advance Planning Division for review and approval.

## **COMPLIANCE RECORD**

### **When Required:**

Prior to excavation in the western half of the west pit.

### **Inspected by:**

### **Date Inspected:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**This Page Intentionally Left Blank**

## MITIGATION MEASURE:

**HYD-1.** Prior to the expansion of the Cushenbury mine, a Groundwater Monitoring Program shall be developed and submitted to the County Geologist for review and approval.

Based upon the results of the analysis and existing groundwater data, the Groundwater Monitoring Program shall include recommendations for the location and depth of monitoring wells. The Groundwater Monitoring Program shall also include details with respect to monitoring, sampling, and reporting. Static groundwater levels and groundwater quality shall be measured, analyzed, and reported to the County Geologist annually. Implementation of the Groundwater Monitoring Program may require additional measures, as determined by the County Geologist based upon the monitoring results.

Prior to either excavation floor reaching an elevation of 4,402 feet (within 50 feet of presumed groundwater levels), at least three monitoring wells shall be established within the excavation area. As new monitoring wells are constructed, they shall be added to the annual Groundwater Monitoring Program.

## IMPLEMENTATION AND VERIFICATION

- 1) Submit a groundwater-monitoring plan to the County Geologist (Building and Safety Department) for approval; including annual reports as required by the plan.
- 2) Submit copy of the County Geologist approval to the Planning Department.

## COMPLIANCE RECORD

### When Required:

Prior to excavation of the West Pit or lowering the East Pit below 4495 feet elevation.

**Submitted to County Geologist:**

**Date Submitted:**

\_\_\_\_\_

\_\_\_\_\_

**Approved by County Geologist:**

**Date Approved:**

\_\_\_\_\_

\_\_\_\_\_

**Copy of Geologist Approval to Planning:**

**Date Submitted:**

\_\_\_\_\_

\_\_\_\_\_

**This Page Intentionally Left Blank**

## MITIGATION MEASURE:

**HYD-2.** In order to avoid interception and/or interruption of the groundwater table, quarrying operations shall not be permitted within 25 feet of the monitored groundwater levels.

## IMPLEMENTATION AND VERIFICATION

Annual Monitoring Report (per HYD-1) shall include a statement indicating the distance between the floor of each pit **and the monitored groundwater level.**

## COMPLIANCE RECORD

### When Required:

Annually, on or before March 31st, throughout mining and reclamation.

DATE	Reported Distance (ft.) Between Floor of Pit and Monitored Ground Water	
	East Pit	West Pit



**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**HYD-3.** The project applicant shall obtain a general construction stormwater permit from the California Regional Water Quality Control Board, Colorado River Basin Region, if applicable.

## **IMPLEMENTATION AND VERIFICATION**

The project proponent will copy the Planning Department on its submission of its Intent to Discharge letter in accordance with the Stormwater Pollution Prevention Plan by CRBRWCQB.

## **COMPLIANCE RECORD**

### **When Required:**

Prior to excavation of the West Pit.

**Copy of Intent to Discharge Submitted:**

**Date Submitted:**

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**BIO-1.** Land under the control of the project proponent shall be designated for the conservation of the four listed carbonate species at a rate of three acres for each acre of occupied habitat disturbed on the project site. No surface disturbance shall occur prior to identification and establishment of mitigation areas of habitat value comparable to that of the occupied habitat on the proposed project site. The habitat value of mitigation areas shall be determined by a qualified botanist and be reviewed and approved by the County.

## **IMPLEMENTATION AND VERIFICATION**

- 1) Submit a description of proposed conservation lands and the resources on that land having value for conservation of the four listed carbonate plant species occurring on the expansion site.
- 2) The Planning Department shall review and approve the proposed lands for suitability as conservation lands.

This mitigation measure, along with mitigation measure BIO-2, would not be required should the project proponent elect, and the County approve, BIO-3 in lieu of BIO-1 and BIO-2.

## **COMPLIANCE RECORD**

### **When Required:**

Prior to land disturbance in the West Pit expansion area.

**Submitted:**

**Date Submitted:**

---

---

**Approved by:**

**Date Approved:**

---

---

**This Page Intentionally Left Blank**

## MITIGATION MEASURE:

**BIO-2.** The project proponent shall, for each disturbed acre of “carbonate habitat”, reclaim an equivalent acre on-site with a comparable plant community incorporating Parish’s daisy, Cushenbury milkvetch, Cushenbury buckwheat, and Cushenbury oxytheca. For each acre of “carbonate habitat” successfully reestablished on the site, the applicant shall be able to withdraw the equivalent acreage from the conservation area for future mining or other use. Withdrawal of acreage from the conservation area would only occur as plants are reestablished on reclaimed mined areas. Fifty (50) percent of the number of individual plants originally occurring in the mined area would have to be successfully replanted in order to remove one-third of the area originally under the easement. Table 4.3.B (EIR page 4-64) provides the baseline data for the success criteria. The determination of successful replanting shall be made at the end of a 5-year monitoring period. The project proponent may withdraw a maximum of one acre from the conservation area for every acre successfully reclaimed for future mining or other use. Two conservation acres for every acre disturbed shall remain in the conservation area in perpetuity.

## IMPLEMENTATION AND VERIFICATION

Progress in reclamation shall be reported with the annual report per SMARA, and verified by the Planning Department during SMARA site inspections.

This mitigation measure, along with mitigation measure BIO-1, would not be required should the project proponent elect, and the County approve, BIO-3 in lieu of BIO-1 and BIO-2.

## COMPLIANCE RECORD

### When Required:

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during site inspections.

**Inspected by:**

**Date Inspected:**

---

---

---

---

---

---

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**BIO-3.** The project proponent may choose to participate in the Carbonate Habitat Management Strategies (CHMS) developed by the USFS, BLM, County, and USFWS. Compliance with the CHMS may substitute for Mitigation Measures BIO-1 and BIO-2 above, if determined by the County to be functionally equivalent.

## **IMPLEMENTATION AND VERIFICATION**

Submit copy of compliance documentation to the Planning Department.

### **When Required:**

Prior to surface disturbance in the West Pit area.

## **COMPLIANCE RECORD:**

**Documentation Submitted to Planning by:**

**Date:**

---

---

**County Planning Department Approved CHMS  
as Functionally Equivalent**

**Date:**

---

---



**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**BIO-4.** In order to compensate for the loss of foraging habitat, the project proponent shall provide dedicated conservation easements within area(s) determined to be suitable for bighorn sheep by the California Department of Fish and Game ("CDFG"). The total size of all such easements shall equal the total area that will be disturbed during the proposed mine expansion. As determined by the CDFG, the easements may consist in whole or in part of lands dedicated for conservation pursuant to mitigation measure BIO-1 or BIO-3.

## **IMPLEMENTATION AND VERIFICATION**

Submit copy of CDFG approval of easements to the County Planning Department.

## **COMPLIANCE RECORD**

### **When Required:**

Prior to surface disturbance of the West Pit area.

**Documentation Regarding Dedication of  
Easements to CDFG by :**

**Date:**

---

---

**Copy of CDFG Approval to the Planning  
Department by:**

**Date:**

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**BIO-5.** In order to facilitate movement of bighorn sheep, the project proponent shall install water sources at three locations determined by the CDFG. The project proponent shall maintain these water sources, as well as the two existing on-site sources, for the life of the mining and reclamation activities.

## **IMPLEMENTATION AND VERIFICATION**

- 1) Submit copy of CDFG approval of locations of new water sources to the Planning Department.
- 2) Semi-annual inspections of each of the water sources and retention of a log of observations and applicable corrective actions.

## **COMPLIANCE RECORD**

### **When Required:**

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during SMARA site inspections.

**Copy of CDFG Approval to Planning  
Submitted by:**

**Date:**

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**BIO-6.** The project proponent shall create angled pathways interlacing reclaimed benches, in order to facilitate the movement of bighorn sheep and other wildlife through the pit areas. These benches will be created as the mining sequence is finished and prior to revegetation. This activity will be initiated in consultation with CDFG.

## **IMPLEMENTATION AND VERIFICATION**

- 1) Submit final bench plan to CDFG and County Geologist.
- 2) Submit copy of CDFG and County Geologist approval to the Planning Department.
- 3) The Planning Department shall verify compliance with approved plans during annual SMARA site inspections.

## **COMPLIANCE RECORD**

### **When Required:**

Upon benches reaching final configuration.

**Final Bench Plan Submitted to CDFG for  
Approval by:**

**Date:**

---

---

**CDFG Approval Plan Submitted to County  
Geologist by:**

**Date:**

---

---

**Geologist Approved Submitted to Planning  
Department by:**

**Date:**

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**BIO-7.** The project proponent shall conduct a literature search and survey of knowledgeable professionals for the identification of beneficial forage species attractive to bighorn sheep, and their propagation techniques. The project proponent shall then conduct a revegetation test in order to determine whether the identified species can be cultivated for use in mine reclamation, and whether they are likely to be used by the herd of bighorn sheep currently resident adjacent to the Cushenbury mine. The test may be conducted at the Cushenbury Mine site or at a nearby location approved by CDFG.

## **IMPLEMENTATION AND VERIFICATION**

- 1) Submit results of literature search and survey to the Planning Department.
- 2) Progress Report on revegetation tests with the first annual SMARA report following completion of the test.

## **COMPLIANCE RECORD**

### **When Required:**

Prior to excavation of West Pit.

**Survey Results Submitted to  
the Planning Department by:**

**Date Submitted:**

**Test Plot Progress Reports Submitted  
to the Planning Department:**



**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**BIO-8.** If the revegetation test described in BIO-7 succeeds in identifying forage species that can be cultivated at this location and that will be used by the local herd of bighorn sheep, the project proponent shall include such species in the plant palette proposed for revegetation under the Mine Reclamation Plan, and shall work with the CDFG to obtain approval of the use of such species in mine reclamation from the California Department of Conservation, Office of Mine Reclamation.

## **IMPLEMENTATION AND VERIFICATION**

If applicable, propose forage species beneficial to sheep to Office of Mine Reclamation.

## **COMPLIANCE RECORD**

### **When Required:**

If applicable, within one year following submission of report on revegetation test described for BIO-7.

**Proposed Plant Palette including Forage  
Species Beneficial to Bighorn Sheep  
Submitted to OMR by:**

**Date:**

---

---

**Proposed Plant Palette Approved by  
OMR by:**

**Date:**

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**BIO-9.** The project proponent shall not bring donkeys or domestic sheep onto the proposed project site or adjacent lands under its control. The project proponent shall not authorize others to bring donkeys or domestic sheep onto such lands. Training for mine employees shall include instructions to report observations of domestic animals to the project proponent's Environmental Manager. Upon receiving any such reports, the Environmental Manager shall contact the appropriate authorities for removal.

Prior to blasting activities within the project area, mine employees shall conduct a visual inspection of the blast area to ascertain the presence or absence of bighorn sheep, deer, and people. If bighorn sheep, deer, or people are located within the blast area, mine employees shall employ non-harmful measures to remove the sheep, deer, or people from the blast area.

## **IMPLEMENTATION AND VERIFICATION**

Employee orientation and training shall include notice of this requirement and will also address the requirements of BIO-12. The Planning Department shall verify compliance during the annual SMARA inspections.

## **COMPLIANCE RECORD**

### **When Required:**

Mitigation is required on an ongoing basis during both mining and reclamation. The project proponent will prepare and maintain a log of training and keep a file of training materials available to the County for review.

**Copy of Training Materials Submitted  
to the Planning Department by:**

**Date Submitted:**

---

---

**Inspected by:**

**Date Inspected:**

---

---

---

---

---

---

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**BIO-10.** The project proponent shall contribute \$10,000 per year for three years to support the effort of the CDFG to monitor and gather data regarding the herd of bighorn sheep currently resident adjacent to the Cushenbury mine. The first payment shall be made within 60 days after approval of the Conditional Use Permit and Mine Reclamation Plan, and certification of the EIR. Subsequent payments shall be made on the annual anniversary of the first payment.

## **IMPLEMENTATION AND VERIFICATION**

Submit copy of CDFG receipt of funds to the Planning Department. CDFG may approve alternative allocations of the funds and/or alternative schedules of payment, provided the funds are used to monitor the local herd of bighorn sheep and/or the sheep's utilization of the habitat enhancements required by **Mitigation Measure BIO-10.**

## **COMPLIANCE RECORD**

### **When Required:**

Each of the first three years subsequent to project approval on or before March 31st.

### **Copy Submitted by:**

---

---

---

### **Date Submitted:**

---

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**BIO-11.** The project proponent shall retain a biologist with expertise in bighorn sheep biology to assist the CDFG in implementing the efforts funded in measure BIO-10 above. The contract shall be for no less than \$10,000 per year and for no less than 3 years.

## **IMPLEMENTATION AND VERIFICATION**

The project proponent shall submit a copy of the contract to the Planning Department. CDFG may approve alternative allocations of the funds and/or alternative schedules of payment, provided the funds are used to monitor the local herd of bighorn sheep and/or the sheep's utilization of the habitat enhancements required by **Mitigation Measure BIO-11**.

## **COMPLIANCE RECORD**

### **When Required:**

During the first three years subsequent to project approval.

### **Submitted:**

---

---

---

### **Date Submitted:**

---

---

---



**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**BIO-12.** The project proponent shall instruct its employees and other visitors to the mine to remain in their vehicles whenever possible. Access to undisturbed lands by humans on foot shall be restricted, and usually would include only biologists and individuals setting explosives or involved in reclamation. The project proponent shall establish a training program, including new-employee orientation and annual refreshers, to educate employees regarding bighorn sheep and the importance of avoidance.

## **IMPLEMENTATION AND VERIFICATION**

The project proponent shall submit a copy of the Training and Orientation Materials to the Planning Department. The Planning Department shall verify compliance during site inspections.

## **COMPLIANCE RECORD**

### **When Required:**

Mitigation is required on an ongoing basis during both mining and reclamation. The project proponent will prepare and maintain a log of training and keep a file of training materials available to the County for review.

**Copy Submitted to Planning:**

**Date Submitted:**

---

---

**Inspected by:**

**Date Inspected:**

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**BIO-13.** The western edge of the West Pit shall not extend west of the existing Marble Canyon Haul Road.

## **IMPLEMENTATION AND VERIFICATION**

The project proponent shall submit a copy of the revised mine plans to the Planning Department for review and approval.

## **COMPLIANCE RECORD**

### **When Required:**

Prior to excavation of the West Pit.

**Plans Submitted by:**

---

**Date Submitted:**

---

**Approved by:**

---

**Date Approved:**

---

**This Page Intentionally Left Blank**

### **MITIGATION MEASURE:**

**AQ-1.** Every day of active mining, the project proponent shall water unpaved roads and disturbed mine areas that are in active use on that day. Water shall be applied no less than once every 1.25 hours at a rate of no less than 0.11 gallons per square yards.

### **IMPLEMENTATION AND VERIFICATION**

The plant water truck operator shall maintain a written log of operations on days when mining is active.

### **COMPLIANCE RECORD:**

The water truck log shall be available for inspection to the County at any site inspection conducted.

#### **When Required:**

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during site inspections.

#### **Inspected By:**

#### **Date Inspected:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**AQ-2.** Prior to commencing surface disturbance in the West Pit area, the project proponent shall replace the engine in the existing water truck with an engine rated a NO<sub>x</sub> rating of no more than 5.02 grams per brake horsepower hour. This condition may be satisfied by replacing the engine only, or by replacing the entire water truck.

## **IMPLEMENTATION AND VERIFICATION**

The project proponent shall obtain documentation demonstrating the purchase and/or installation of the engine or replacement of the entire water truck prior to excavation. This documentation will be submitted to the Planning Department.

## **COMPLIANCE RECORD**

### **When Required:**

Prior to excavation.

**Documentation Submitted by:**

**Date Submitted:**

---

---



**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**VIS-1.** As mining activities are completed, disturbed areas shall be reclaimed and revegetated per the provisions of the reclamation plan.

## **IMPLEMENTATION AND VERIFICATION**

Reclamation shall be reported annually per the requirements of SMARA and the Planning Department shall verify compliance during site inspections.

## **COMPLIANCE RECORD**

### **When Required:**

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during SMARA site inspections.

**Inspected by:**

**Date Inspected:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**This Page Intentionally Left Blank**

## MITIGATION MEASURE:

**VIS-2.** In areas where quarrying or rock stockpiling occurs in material that creates a major visual contrast to the existing surrounding landscape, the final reclamation process shall include staining of the quarry face/rock stockpiles, covering the light rock with a darker rock, or an alternative method for reducing visual impacts. Staining shall be of an iron oxide solution or other suitable amendment that meets all applicable Federal, State, and County rules and regulations. Any alternative method to reduce the visual contrast of these surfaces shall be submitted to the County for review and approval.

## IMPLEMENTATION AND VERIFICATION

Reclamation shall be reported per the requirements of SMARA and the Planning Department shall verify compliance during site inspections.

## COMPLIANCE RECORD

### When Required:

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during SMARA site inspections.

**Inspected by:**

**Date Inspected:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**This Page Intentionally Left Blank**

### **MITIGATION MEASURE:**

**VIS-3.** Surface disturbances shall be limited to areas identified in the Mine Reclamation Plan. Disturbances outside these areas shall be prohibited.

### **IMPLEMENTATION AND VERIFICATION**

Planning shall verify compliance with approved plans during SMARA site inspections.

### **COMPLIANCE RECORD**

#### **When Required:**

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during SMARA site inspections.

**Inspected by:**

**Date Inspected:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**This Page Intentionally Left Blank**

## **MITIGATION MEASURE:**

**VIS-4.** Dark overburden removed during mining activities shall be stockpiled for use as final veneer to be applied over the final mined surfaces that are most visible from off-site locations.

## **IMPLEMENTATION AND VERIFICATION**

Reclamation shall be reported annually per the requirements of SMARA and the Planning Department shall verify compliance during SMARA site inspections.

## **COMPLIANCE RECORD**

### **When Required:**

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during SMARA site inspections.

**Inspected by:**

**Date Inspected:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---



**This Page Intentionally Left Blank**

## MITIGATION MEASURE:

**VIS-5.** A visual analysis assessment shall be prepared at two-year intervals from the commencement of mining operations within the proposed West Pit and shall continue for the permitted life of the mine. The visual analysis summary shall assess the visual impacts resulting from development of the proposed project, the effectiveness of measures undertaken to mitigate visual impacts, and if required, establish additional measures to reduce the visual contrast of mined surfaces. The visual analysis shall be submitted to the County for review and approval.

## IMPLEMENTATION AND VERIFICATION

Submit a Visual Analysis Assessment to the Planning Department every two years.

## COMPLIANCE RECORD

### When Required:

Mitigation is required on an ongoing basis during both mining and reclamation. This shall be verified during site inspections.

	Submitted to Planning Dept.	Approved by Planning Dept.
2005 By: Date:		
2006 By: Date:		
2007 By: Date:		
2008 By: Date:		
2009 By: Date:		
2010 By: Date:		
2011 By:		

Date:		
-------	--	--

**This Page Intentionally Left Blank**